

[Name of Document] ABSTRACT

It is an object of the present invention to provide: a method for preparing a cell concentrate which efficiently separates nucleated cells from unnecessary cells contained in a cell-containing solution by simple operations, thereby reducing the volume of a solution used for cryopreservation that contains the nucleated cells, when the cell-containing solution that contains the nucleated cells and the unnecessary cells has been filtrated with a filter device and when a recovery solution is then introduced into the filter device to recover the nucleated cells captured by a filter material; and a cell composition. The present invention provides a method for preparing a cell concentrate, which comprises: introducing a cell-containing solution that contains nucleated cells and unnecessary cells into a filter device comprising a filter material for substantially capturing the nucleated cells and for substantially giving passage to the unnecessary cells, so as to capture the nucleated cells by the above-described filter material and to discharge the unnecessary cells from the above device; and introducing a recovery solution into the above-described filter device, so as to recover the nucleated cells captured by the above-described filter material, wherein the above-described method is characterized in that the cell-containing solution that contains nucleated cells and unnecessary cells are separated into a layer that is rich in nucleated cells and a layer that is rich in unnecessary cells, the layer rich in unnecessary cells is first introduced into the above-described filter device, and the layer rich in nucleated cells is then introduced therein, so as to discharge the unnecessary cells remaining in the above-described filter device while capturing the nucleated cells by the above-described filter material, and a recovery solution is then introduced into the above-described filter device, so as to recover the nucleated cells captured by the above-described filter material.